

DYBIZBANSKI, B.

TECHNOLOGY

PERIODICAL: GOSPODARKA WODNA. Vol. 18, no. 8, Aug. 1958

DYBIZBANSKI, B. Reinforced-concrete pipeline construction at Goczalkowice,.
p. 362.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 4.

April 1959, Unclass

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4

* Catalytic transformations of hydrocarbons IV Trans-
formation of diphenylmethane and diisobutylane I P

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4"

DYBKOV, V.F., kandidat geologo-mineralogicheskikh nauk.

Structure of ore fields in the Bazhenovo asbestos region as the
most important criterion in prospecting "blind" deposits. Zap.
Len.ner.inst.30 no.2:145-163 '55. (MLRA 9:7)
(Bazhenevo--Asbestos)

DYBKOV, V.F.

Factors controlling the mineralization in the Bazhenovo asbestos-bearing region and problems of prospecting for blind deposits of chrysotile-asbestos. Zekonom. razm. polezn. iskop. 6:222-227 '62. (MIRA 16:6)

1. Leningradskiy gornyy institut.
(Sverdlovsk Province--Asbestos)
(Sverdlovsk Province--Chrysotile)

BETEKHTIN, A.G.[deceased]; GOLIKOV, A.S.; BYBKOVA, V.F.; IVANOV,
G.A.; KARYAKIN, A.Ye.; KIRYUKOV, V.V.; KUFROV, I.G.;
MAGAK'YAM, I.G.; STROKA, P.A.; TATARINOV, P.M.;
CHEKHOVICH, Ye.D.; SMIRNOV, V.I., retsenzenti.

[Course in mineral deposits] Kurs mestorezhenii poleznykh
iskopаемых. Izd.3., perer. i dop. Moscow, Nedra, 1964.
589 p.

(MIRA 18:3)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4

SKIBA, Jozef; DYBKOWSKI, Jan

Advantages of using gathering conveyors. Wiadom gorn 12 no. 12:
413-416 D '61.

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4"

DYBO, V. A.

Dissertation defended for the degree of Candidate of Philological Sciences
at the Institute of Slavic Studies

"Problem of the Relationship of Two Balto-Slavik Series of Accent Correspondences
in Verbs."

Vestnik Akad. Nauk, No 4, 1963, pp 119-145

DYBOK, P.A.; DYBOK, V.G.

Subcutaneous emphysema. Akush.i gin. 35 no.5:106-107 S-O '59.
(MIRA 13:2)

1. Iz rodil'nego otdeleniya Khorinskoy rayonnoy bol'nitsy Buryat-skoj ASSR.

(EMPHYSEMA)

DYBOK, P.A.; DYBOK, V.G.

Subcutaneous emphysema. Akush.i gin. 35 no.5:106-107 S-0 '59.

(MIRA 13:2)

1. Iz rodil'nogo otdeleniya Khorinskoy rayonnoy bol'nitsy Buryat-skoy ASSR.

(EMPHYSEMA)

DYBOV, G. V. (Engr)

DYBOV, G. V. (Engr) -- "DECREASE OF THE WEAR AND TEAR OF CYLINDERS IN AUTOMOBILE ENGINES BY A CHANGE IN THE LUBRICATION SYSTEM." Subm'd Jun 52, Sci COUNCIL OF STATE SCI RES AUTOMOBILE AND AUTOMOTIVE INST (NAMI) (DISSERTATION FOR THE DEGREE OF CANDIDATE IN TECHNICAL SCIENCE)

SC: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

DYBOV O.V.

MATVEYEV, A.I., kandidat tekhnicheskikh nauk, redaktor; CHAMOV, A.N., inzhener, redaktor; GOL'D, B.V., kandidat tekhnicheskikh nauk, retsenzsent; DYBOV, O.V., kandidat tekhnicheskikh nauk, retsenzsent; MINKIN, N.L., kandidat tekhnicheskikh nauk, retsenzsent; OSTROVTSEV, A.N., kandidat tekhnicheskikh nauk, retsenzsent; TIKHONOV, A.Ye., tekhnicheskiy redaktor.

[Studies in construction of automobiles; collection of scientific research problems of the Molotov Automobile Factory and the Zhdanov Polytechnical Institute at Gorkiy] Issledovaniia v oblasti konstruirovaniia avtomobilia; sbornik nauchno-issledovatel'skikh rabot avtomobil'nogo zavoda imeni Molotova i Gor'kovskogo politekhnicheskogo instituta imeni Zhdanova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1953. 249 p.
[Microfilm]
(Automobiles -- Design and construction)

DIBOV, O.V., kandidat tekhnicheskikh nauk; KUGEL', R.V., kandidat tekhnicheskikh
~~nauk~~

Increasing the lifetime of automobiles. Standartizatsiya no.3:48-54
My-Je '54.
(Automobile engineering--Standards)

MALAKHOVSKIY, Ya.E.; IVANOV, Yu.B.; DYBOV, O.V., kandidat tekhnicheskikh nauk, redaktor; FRUMKIN, A.K., kandidat tekhnicheskikh nauk, dotsent, retsenzent; KOTIKOV, A.K., inzhener, retsenzent; SOKOLOVA, T.F. tekhnicheskiy redaktor.

[Automobile friction clutches] Friktsionnye stsepleniia avtomobilei. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 142 p. (Razvitiye konstruktsii avtomobilei, no.13) (MLRA 8:8)
(Automobiles--Clutches)

LYSYKH, T.S., kand.tekhn.nauk; PASHIN, M.A., red.; LIPGART, A.A., red.; AL'-
PEROVICH, A.G., red.; BORISOV, S.G., red.; BRISKIN, M.I., red.;
DYBOV, O.V., red.; ZIL'BERBERG, Ya.G., red.; LOZAR', A.S., red.;
LUREV, I.S., red.; NAGAYEV, P.V., red.; PEVZNER, N.M., red.;
PRYADILOV, V.I., red.; RAMAYYA, K.S., red.; SAMOL', G.I., red.;
SEDOVA, Ye.V., red.; TAMURCHI, O.V., red.; KHANIN, N.S., red.;
CHAPCHAYEV, A.A., red.; CHISTOZVONOV, S.B., red.; SHKOL'NIKOV, E.M.,
red.; LEZHLEVA, G.V., red.izd-va; SMIRNOVA, G.V., tekhn.red.

[Design and investigation of performance of power disk brakes]
Issledovanie raboty diskovykh tormozov s usilniem i metod ikh
rascheta. Moskva, Gos.nauchno-issledovatel'skii avtomobil'noi i
avtomotornyi institut. Trudy, no.86) (MIRA 12:8)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni
nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyiy institut.
(Automobiles--Brakes)

SKOTNIKOV, Viktor Vasil'yevich; VEDENYAPIN, G.A., red.; LIPOART, A.A., otv. red.;
BORISOV, S.G., red.; BRISKIN, M.I., red.; DIBOV, O.V., red.; ZIL'BERG, Ya.
G., red.; KOZLOVSKIY, I.S., red.; LOZAR', A.S., red.; LIUDEV, I.S., red.;
PRYZHEV, Ya.M., red.; PRYADILOV, V.I., red.; RAMAYYA, K.S., red.;
SAMOL', G.I., red.; SEDOVA, Ye.V., red.; KHANIN, N.S., red.; CHAPAYEV,
A.A., red.; CHISTOZVONOV, S.B., red.; SHKOL'NIKOV, E.M., red.;
YEGORKINA, L.I., red. izd-va; SMIRNOVA, G.V., tekhn.red.

[Intermediate transformation and temper brittleness of automobile body steels] Promezhutochnoe prevrashchenie i otpusknaia
khupkost' v konstruktsionnykh avtomobil'nykh staliakh. Moskva,
Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry 1958. 74 p.
(Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotornyi
institut Trudy, no.85) (MIRA 12:2)
(Steel, Automobile--Metallography)

LIPGART, Andrey Aleksandrovich, prof., red.; DYBOV, Oleg Vladimirovich,;
SAMOL', Grigoriy Ivanovich,; KHANIN, Naum Samoylovich,; CHISTOZVOJOV,
Sergey Borisovich,; KUGEL', P.Y., kand. tekhn. nauk, retsenzent,;
ABRAMOVICH, A.D., inzh., red.; YEGORKINA, L.I., red. izd-va,;
UVAROVA, A.F., tekhn. red.; MODEL', B.I., tekhn. red.

[V-type gasoline automobile engines] Avtomobil'nye benzinovye
V-obraznye dvigateli. Pod obshchei red. A.A. Lipgarta. Moskva,
Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 293 p.
(MIRA 11:10)
(Automobiles--Engines)

.12(0)
.12(5)

SOV/113-59-3-1/17

AUTHOR: Dybov, O.V., Candidate of Technical Sciences

TITLE: The Future Type Classification of Domestic Automobiles and Their Engines (Perspektivnyy tipazh otechestvennykh avtomobiley i ikh dvigateley)

PERIODICAL: Avtomobil'naya promyshlennost', 1959, Nr 3, pp 1 - 4 (USSR)

ABSTRACT: The author explains the principles of a type classification of Soviet automobiles and engines, which was developed by NAMI by order of the former Ministry of the Automobile Industry and Gosplan SSSR. The type classification was approved by the USSR Government for production during 1959 - 1965. Those models, whose development was not completed when the classification was compiled, were not included, but were taken under consideration for future addition. The classification is shown by four tables. Table 1 deals with "Passenger Cars" and contains the "Moskvich",

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The Future Type Classification of Domestic Automobiles and Their
Engines SOV/113-59-3-1/17

GAZ-69, "Volga", "Chayka" and the ZIL-111. Table 2, "Trucks" comprises the delivery truck version of the "Moskvich", the UAZ, GAZ-56, GAZ-52, ZIL, MAZ, YaAZ and the 25-ton dump truck MAZ-525. Table 3 lists 7 bus types, UAZ, PAZ-651, PAZ-652, LAZ-695, ZIL-158, ZIU, ZIL-127. Table 4 contains five gasoline and two diesel engines whereby the latter are reserved for 5-ton trucks or heavier vehicles. A fifth table gives a symbolic representation of the different vehicle types and the engines to be used in them. The type classification has the purpose of providing basic principles for the future development of automobiles in the USSR according to the requirements of the USSR economy. The classification was based on five principles: 1) the demand for automobile transport in the USSR had to be met as far as possible, whereby the number of basic types, units, assemblies and parts had to be kept at a minimum.

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The Future Type Classification of Domestic Automobiles and Their Engines

with maximum standardization; 2) the experience of the domestic automobile industry and the experience in the operation of existing vehicle types had to be considered; 3) the future development of allied industries, especially the petroleum, chemical and steel industries was another factor; 4) high quality indexes were emphasized and possibilities for a future increase of the same; 5) the type classification had to meet the requirements of the socialist plan economy and specific transport, road and climatic conditions. The author further stated that no attempt should be made to produce automobiles of the American or European type, but Soviet type vehicles most suitable for operation under domestic conditions. The type classification was designed to be adequate for the next 8 to 12 years although modifications are possible as soon as the need arises. Engines for trucks and sedans should be built identically, but with different compression ratio, rpm and power.

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Engines

All engines should be of the short-stroke type with overhead valves. Only four cycle engines are listed in Table 4 and the author emphasizes that even heavy diesel engines should be built as four-cycle engines.

ASSOCIATION: NAMI

Card 4/4

PETRUSHOV, V.A., inzh.; PASHIN, M.A., red.; LIPGART, A.A., ottv.red.;
AL'PEROVICH, A.G., red.; BORISOV, S.G., red.; BRISKIN, M.I., red.;
DYBOV, O.V., red.; ZIL'BERBERG, Ya.G., red.; LOZAR', A.S., red;
LJUBLV, I.S., red.; NAGAYEV, P.V., red.; PEVZNER, Ya.M., red.;
PHYADILOV, V.I., red.; RAMAYYA, K.S., red.; SAMOL', G.I., red.;
SEDOVA, Ye.V., red.; TAMRUCHI, O.V., red.; KHANIN, N.S., red.;
CHAPCHAYEV, A.A., red.; CHISTOZVONOV, S.B., red.; SHKOL'NIKOV,
E.M., red.; YEGORKINA, L.I., red.izd-va; GORDEYEVA, L.P., techn.
red.

[Operational analysis of the multiplate friction transformer]
Analiz raboty mnogodiskovykh friktsionnykh transformatorov.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry,
1960. 79 p.(Moscow. Gosudarstvennyi nauchno-issledovatel'skii
avtomobil'nyi i avtomotornyi institut [Trudy], no.90).
(MIRA 13:8)

(Motor vehicles--Transmission devices)

FITTERMAN, Boris Mikhaylovich, kand. tekhn. nauk; GOL'D, B.V., doktor tekhn. nauk, retsenzent; DYBOV, O.V., kand. tekhn. nauk, red.; NAKHIMSON, V.A., red. izd-va; UVAROVA, A.F., tekhn. red.

[Small automobiles; survey of designs] Mikroavtomobili; obzor konstruktsii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 270 p. (MIRA 14:7)
(Automobiles—Design and construction)

KISELEV, B.A., inzh.; EIPGART, A.A., otv.red.; PASHIN, M.A., red.; BORISOV, S.G., red.; BRISKIN, M.I., red.; BRYZGOV, N.N., red.; DYBOV, O.V., red.; ZIL'BERBERG, Ya.G., red.; LOZAR', A.S., red.; LUNEV, I.S., red.; NAGAYEV, P.V., red.; PEVZNER, Ya.M., red.; PRYADILOV, V.I., red.; RAMAYYA, K.S., red.; SAMOL', G.I., red.; SEDOVA, Ye.V., red.; TAMRUCHI, O.V., red.; CHAPKEVICH, V.A., red.; CHISTOVONOV, S.B., red.; SHKOL'NIKOV, E.M., red.; SMIRNOVA, G.V., tekhn.red.

[Investigation of the operation and gas-exchange of a loop-scavenged two-cycle motor-vehicle diesel engine] Issledovanie rabochego protsessa i gazoobmena dyukhtaktnogo avtomobilnogo dizelia s petlevoi produvkoi. Moskva, Mashgiz, 1961. 493 p. (Moscow. Gosudarstvennyi nauchno-issledovatel'skii avtomobil'nyi i avtomotornyi institut. Trudy, no.30). (MIRA 16:8)
(Motor vehicles--Engines)

S/894/62/000/002/001/002
B112/B186

AUTHOR: Dybow, P. T.

TITLE: Stability of the solution of the first boundary-value problem for the elliptic fourth-order equation with respect to the boundary conditions and the domain

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Kafedra vysshey matematiki. Sbornik nauchnykh rabot. no. 2, 1962, 37 - 54

TEXT: The differential equation

$$\begin{aligned} L(u) = & a \partial^4 u / \partial x^4 + b \partial^4 u / \partial x^3 \partial y + c \partial^4 u / \partial x^2 \partial y^2 + d \partial^4 u / \partial x \partial y^3 + e \partial^4 u / \partial y^4 \\ & + a_1 \partial^3 u / \partial x^3 + a_2 \partial^3 u / \partial x^2 \partial y + a_3 \partial^3 u / \partial x \partial y^2 + a_4 \partial^3 u / \partial y^3 + b_1 \partial^2 u / \partial x^2 \\ & + b_2 \partial^2 u / \partial x \partial y + b_3 \partial^2 u / \partial y^2 + c_1 \partial u / \partial x + c_2 \partial u / \partial y + g u = f \end{aligned} \quad (1)$$

is considered in the circle Γ : $x^2 + y^2 \leq 1$ with the boundary γ . It is assumed that a, b, c, d, e are measurable bounded functions of x, y ; that the condition
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Stability of the solution of...

S/894/62/000/002/001/002
B112/B186

$$at^4 + bt^3 + ct^2 + dt + e \geq \delta_0 > 0, \delta_0 = \text{const} \quad (2)$$

is fulfilled for any value of the real parameter t ; and that the coefficients a_i, b_j, c_1, c_2, g, f ($i = 1, 2, 3, 4$; $j = 1, 2, 3$) are contained in the space L_p ($p > 2$). The solution

$$u(x, y) = \iint G(z, \xi) q(\xi) d\xi d\eta, \quad (5)$$
$$G(z, \xi) = -|z - \xi|^2 \lg |(z - \xi)/(1 - \bar{z}\xi)|/\pi - (1 - |z|^2)(1 - |\xi|^2)/\pi$$

of the first boundary value problem for Eq. (1) is shown to be stable with respect to the boundary conditions and the domain of definition.

Card 2/2

SOKOLOV, V.; DYBOVA, N.

Introducing business accounting and bonuses for the reduction
of costs in the foundry of the Ural Railroad Car Plant. Biul.
nauch.inform.; trud i zar.plata no.8:46-48 '59.

(MIRA 13:1)

(Railroads--Cars)

DYBOVA, S.

DYBOVA, S. Actual condition of stratigraphic investigation in the
Upper Silesian Coal Basin. p.511 Vol. 4 , no.11
Nov. 1956. Warszawa Poland..

SOURCE: East European Acquisitions List (EEAL) April 1957 Vol 6, No. 4

SYNTHA, SCNA.

Geography & Geology

Mikrosropy gornoslaskiego karbonu produktywnego. Microspores of the Upper Silesian coal measures. (Wyd. 1.) Warszawa, Wydawn. Geologiczne, 1957. 32 p. (Warsaw, Państwowy Instytut Geologiczny. Prace, t.23) (1st ed. In Czech and Polish with English and Russian summaries. illus., bibl., diagrs., footnotes, graphs, index, tables)

NN

Monthly list of East European Accessions (EEAI), LC, Vol. 6, No. 4
April, 1959, Unclass.

DYBOVA, S.

GEOGRAPHY & GEOLOGY

Periodicals KWARTALNIK GEOLOGICZNY Vol. 2, no. 3, 1958.

DYBOVA, S. The boundary between Namurian and Westphalian formations
in the productive Carboniferous of the Ostrava-Karvina region.
p. 507.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 5,
May 1959, Unclass.

DYBOVA, S.; JACHOWICZ, A.; ZEMAN, J.

"Preliminary report on the investigation of the stratigraphic position of the
Prokop seam in the Ostrava Karvina coal district."

p. 62 (Central Geologic Institute, Czechoslovak Academy of Sciences) Vol. 33, no. 1, 1958

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 5, May 1958

DYBOVSKAYA, Irma Konstantinovna, dōtsent, kand.filol.nauk; PROMTOVA, Irina Andreyevna; SUVOROVA, Vera Vasil'yevna; CHESKIS, Zoya Borisovna; DEYEV, G.N., red.; MASEVICH, A.G., doktor fiz.-matem.nauk, red.; PARIYSKIY, N.N., kand.fiz.-matem.nauk, red.; TANTSOVA, N.N., kand.tekhn.nauk, red.; TERENT'YEVA, L.V., red.; TYAGUNOVA, Z.I., red.; KRYUCHKOVA, V.N., tekhn.red.

[French-Russian geophysical dictionary] Frantsuzsko-russkii geofizicheskii slovar'. Pod red. G.N. Deeva i dr. Moskva, Glav.re-daktsiya inostr.nauchno-tekhn.slovarei Fizmatgiza, 1960. 374 p.

(Geophysics--Dictionaries) (MIRA 13:9)

(French language--Dictionaries--Russian language)
(Russian language--Dictionaries--French language)

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S/263/62/000/010/013/013
I028/I250

✓C

AUTHOR Khvashchevch, Ya., Dybovski, K. and Khvashkaevski, S.
TITLE Technology and characteristics of silicon α -counters
PERIODICAL Referativnyy zhurnal, otdel'nyy vypusk. 32. Izmeritel'naya tekhnika, no. 10, 1962, 60. abstract 32.10.440 "(Referat.) Inst. badań jądrow. PAN", 1961, no. 242/I—B, 9 pp

TEXT Gold silicon α -detectors have been prepared in the Institute of Nuclear Research (PNR). Plates of size 5-50 mm² and thickness 1-1.5 mm were cut out from n-type silicon with a resistivity of 100-300 Ω/cm . Gold was sprayed in vacuum on one of the well-pickled silicon surfaces. The ohmic contact for the gold and the silicon was ensured with the aid of silver paste and copper leads. The sensitive element of the detector was placed in an arbor, on whose internal part was poured synthetic resin "Epidian 5" for reliable fastening and good insulation. The equipment used for the investigation of the characteristics of the described α -detectors consisted of a preamplifier, a pulse amplifier, an ААДО-1 (AADО-1) discriminator, a scaling circuit and a "Solyattron" oscilloscope. The voltage applied to the detector varied between 0 and 60 V, and the value of the load resistance — between 300 Ω and 2 M Ω . The spectrum of the α -particles of plutonium 239, the linear dependence of the value of the pulse on the energy of the α -particles (in the range of up to 5 Mev), curves of the dependence of the pulse value on the load resistance (for different values of the applied voltage) a curve

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Technology and characteristics of...

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of the dependence of the resolving power of the instrument on the polarization voltage and oscillograms of pulses of building-up time of $0.2\text{--}0.3\mu\text{ sec}$, obtained with the aid of a gold silicon spectrometer, are given. It is indicated that the detectors prepared are suitable for recording α -particles and have a resolving power of less than 5 %. There are 7 figures and 11 references.

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[Abstracter's note: Complete translation.]

Card 2/2

SOV/137-58-10-21282

Transaltion from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 120 (USSR)

AUTHORS: Gurevich, I. L., Dybovskiy, R. K., Kalinin, A. T., Veselov, B. P.

TITLE: Liquid Carburizer for Gas Carburization of Steel (Zhidkiy karb-yurizator dlya gazovoy tsementatsii stali)

PERIODICAL: Materialy Mezhvuz. nauchn. soveshchaniya po vopr. novoy tekhn. v neft. prom-sti, 1958, Vol 3, pp 206-223

ABSTRACT: An investigation was conducted on the gas carburization (GC) of specimens of Nr-20 and 18KhGT-grades of steel in a laboratory furnace and in a small type Ts-25 shaft kiln using various liquid carburizers (C); lamp kerosene was used as the standard C. It is indicated that at GC temperatures of 925 - 930°C, a duration of 1.5 hours or 5 hours and at the optimum feeding rate for each C, the employment of alkane C ensures advantages over the use of aromatic C in the total depth of the layer, the magnitudes of the transitional and eutectoid zones, and the degree of carburization of a control wire 1.5 mm in diameter. The best results were obtained using synthol with a boiling-point range of 48 - 246°. When sooty products of decomposition of C are present in the muffle, GC showed that alkane C.

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SOV/137-58-10-21282

Liquid Carburizer for Gas Carburization of Steel

especially synthols with 48 - 246° and 69 - 302° boiling-point ranges, decrease the carburizing capacity less than the aromatic C. The greatest evolution of coke-soot was produced by the aromatic C. Comparative data on GC of machine parts of the DT-54-type tractor of 18KhGT-grade steel in continuous furnaces of the heat-treatment shop of the KhTZ [Khar'kovskiy Traktorny Zavod (Khar'kov Tractor Plant)] showed that compared to the employment of kerosene the increase in the productivity for 100 - 231°, 101 - 305°, and 195 - 312° fractions are by 24, 51, and 40%, respectively, while the decreases in the amount of the coke-soot deposition are by 50, 35, and 41%, respectively. When synthols are used, a loose soot is produced which is easily washed off with the oil in quenching tanks, corrosion produced by the presence of S is prevented, and the consumption of C per operation is decreased. Technical specifications (TU 574 - 55) are developed for two types of C: synthol 100 - 300° for continuous furnaces and synthol 100 - 230° for shaft kilns.

1. Steel--Carbonization 2. Kerosene--Performance

L. F.

Card 2/2

DYBOWSKIY, V.R. [Dybowski, W.]; BAZYL'CHUK, L. [Bazylczuk, L.]

Surgical treatment of the foot in rheumatoid polyarthritis.
Ortop., travm. i protez. 26 no. 10:27-30 O '65. (MIRA 18:12)

l. Iz ortopedicheskogo otdeleniya (zav. - doktor med. S. Yaku-
bovskiy) Revmatologicheskogo instituta (dir. - doktor med.
V. Bryul'), Warshava. Adres avtorov: Varshava, Spartanskaya
ul. dom 1, Revmatologicheskiy institut. Submitted July 9,
1965.

DYBOWICZ, M.

"Boils on Salmon." p. 21
"Experiments in Acclimatization of the 'white amur' Fish (Ctenopharyngodon Idella)
in European Inland Waters." p. 23
"Activity of the Institute of Inland Fisheries." p. 23
"Development of Pond Construction." p. 24
"The Fishing Campaign in Lakes in the First Half of 1953." p. 24
"Eel Fishing in the Stettin Lagoon Should be Increased." p. 25
(GOSPODARKA RYBNA, Vol. 5, no. 8, Aug. 1953, Warszawa, Poland)

SO: Monthly Lists of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

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CIA-RDP86-00513R000411730001-4

DYBOWICZ, M.

"Infection with the Tapeworm Ligula (Ligulosis)." p. 21, (SOCIETE POLAKA
RIBNA, Vol. 6, No. 3, Mar. 1954. Warszawa, Poland.)

SO: Monthly List of East European Accession, (EEAL), LC,
Vol. 3, No. 12, Dec. 1954, Uncl.

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4"

POL.

Expansive cement Irena Mirecka and Barbara Dybrowa¹

¹Inst. Przemysłu Szkła i Ceram., Gostowice, Poland.

Cement-Wafno-Gips 11(20), 82-84 (1969); cf. C.A. 68, 6967g.

Pilot-plant investigations proved that blast-furnace slags
(I) of a high Al_2O_3 content when mixed with a special ex-
pansive mixt. (II) produced a cement which was waterproof
and only slightly expansive. The cements originated from
blast furnaces "Szczerba" and "Przemko" (in Po-
land). I and the product had the following compn.: SiO_2 11.23 and 10.03%, resp.; Al_2O_3 42.18 and 30.79%, resp.;
 CaO 32.69 and 34.15%, resp.; Fe_2O_3 2.82 and 3.02%, resp.;
 SO_3 3.88 and 10.49%, resp.; loss on calcining 6.60 and
11.69%, resp.; and MgO in traces in both cases. II con-
sisted of a melt of $4\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot 13\text{H}_2\text{O}$ (obtained by reac-
tion of an aqu. soln. of $\text{Ca}(\text{OH})_2$ with I) and $\text{CaSO}_4 \cdot 1/2\text{H}_2\text{O}$ in
such proportion that the produced cement formed with
water $3\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot 3\text{CaSO}_4 \cdot 30\text{H}_2\text{O}$ (III). Such compd. has
an explosive influence on cements. When the amt. of
ingredients is calc'd. it has to be borne in mind that the total
 SiO_2 in I is combined with Al_2O_3 as $2\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{SiO}_2$; only
the rest of Al_2O_3 is available for III. For best results CaO
should be in a 2% excess. The final product consisted of I
70 and II 30% (ground together in a ball mill to a residue of
9.6% on a sieve of 0.08-mm. openings). After an addn. of
35% water the setting started after 6 and ended after 8 min.
The waterproofing was achieved by exerting a pressure of 5
atm. during the setting of the cement. The compression
strength after 1 day was 53.4 and after 28 days 72.5 kg./sq.
cm. The linear expansion after 6 hrs. was 0.61 and after
28 days 0.22%. The authors use such cements for joining
concrete pipes (instead of Pb) and concrete plates, for
machine foundations, and as waterproof concretes. Lab.
tests are described.

P. J. Hendel

Distr: 4E3d

✓ Orientation in the β -naphthol system in acylation reactions. II. The steric effect of the peri-H atom on the dissociation constants of 1-acetyl-2-and 4)-hydroxynaphthalene. Teresa Bisanz and Barbara Dybowska (Politechnika, Warsaw). Roczniki Chemii 33, 975-83 (1959) (English summary); cf. C.A. 54, 4231h.—Dissocn. consts. of the following compds. in 48 vol.-% EtOH at 20° were detd.: ρ -I (pK 8.40; $K \times 10^3$ 3.98) and σ -hydroxybenzaldehyde (9.1; 0.704); ρ -II (8.98; 1.05), and σ -hydroxyacetophenone (III) (11.0; —); 1-formyl-4- (7.56; 26.9) and 1-formyl-2-hydroxynaphthalene (8.04; 9.12); 1-acetyl-4- (IV) (8.40; 3.98), 1-acetyl-2- (V) (9.38; 0.417), 2-acetyl-1- (10.2; 9.60) and 6-acetyl-2-hydroxynaphthalene (0.00; 0.25). The ratio of K of I to II may be a measure of the difference of the effect of aldehyde and Ac groups conjugation on the acidity of phenols. The difference of pK between IV and V is much smaller than between II and III, which is due to smaller effect of H bond in V and may be ascribed to the deviation of the COMe group from the plane of the rings.

A. Kruglewski

1/1 m

4E3d
4-
1-
1/1B)

POLACZKOWA, Wanda; POROWSKA, Natalia; DYBOWSKA, Barbara

The influence of phenyl substituents in the benzene ring on the non-neighboring functional group. I. Benzoic acid derivatives. Rocznik chemii 35 no.5:1263-1271 '61.

1. Department of Organic Chemistry, Institute of Technology, Warsaw and Institute of Organic Synthesis, Polish Academy of Sciences, Warsaw.

POLACZKOWA, Wanda; POROWSKA, Natalia; DYBOWSKA, Barbara

Studies on the influence of phenyl substituents in the benzene ring upon the not neighboring functional group. Rocznik chemii 36 no.1:41-50 '62.

1. Department of Organic Chemistry, Institute of Technology, Warsaw
Laboratory No.4, Institute of Organic Synthesis, Polish Academy
of Sciences, Warsaw.

9,6150

29106
P/046/61/006/010/001/003
D256/D302

21.6000

AUTHORS:

Chwaszczecka, Janina; Chwaszczecki, Stefan, and Dybowski,
Kazimierz

TITLE:

Solid - state detectors for alpha - particles

PERIODICAL:

Nukleonika, v. 6, no. 10, 1961, 635 - 641

TEXT: Gold - silicone surface barrier detectors were produced, and the techniques developed as well as the performance characteristics of the detectors are described. Samples of n-type silicone monocrystals of 100 and 265 ohm · cm resistivity were treated as follows: 1) Polished with fine abrasive powder (14 - 20 μ grain); 2) acid etched for 10 min at 0°C; 3) washed in distilled water; 4) dried; 5) left for 24 hours in the presence of water vapors; 6) a 1 μ layer of gold was vacuum-evaporated onto the surface. To obtain a good electrical contact with the silicone and the gold presented difficulties; the most satisfactory results were obtained by simply pressing the electrodes against the silicone and gold surfaces. The size of the detectors ranged from 1 x 2 x 3 mm to 1.5 x 5 x 5 mm. The detectors were tested with alpha-particles from a Pu²³⁹ source by measuring the dependence of the

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Solid - state detectors for ...

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pulse-height, the signal - to - noise ratio and the energy resolution upon the load resistance and bias voltage. The best resolution observed was approx. 7%; however, it is stated that it may be due to a contribution from the thickness of the alpha-source. Professor G.N. Flerov is mentioned in connection with the advice given to the authors. There are 9 figures and 9 references: 1 Soviet-bloc and 8 non-Soviet-bloc . The most recent references to the English-language publications read as follows: G. Dearnaley and A.B. Whitehead, Nucleonics, 19, N 1 (1961); T.A. Love, et.al., ORNL Report, 3016, 1960; Avivi and Vavin, Rev. Sci. Instrum. v. 31, N 3 (1960).

ASSOCIATION: Instytut badań jądrowych PAN, Warszawa, Dział techniki reaktorowej (Institute of Nuclear Research, PAS, Warsaw, Reactor Engineering Division)

SUBMITTED: June, 1961

JF

Card 2/2

CHWASZCZEWSKA, Janina; CHWASZCZEWSKI, Stefan; DYBOWSKI, Kazimierz

Silicon nuclear radiation detectors. Przegl elektroniki 3
no.6:349-352 Je '62.

1. Zaklad I-B Fizyki Jadrowej i Zaklad IX - Instytut Badan
Jadrowych, Warszawa.

ACCESSION NR: AF5014460

20/0046/64/009/11-/0897/0900

1. To: Kwaszczewski, Stefan; Dybowski, Kazimierz

2. From: neutron impulse generator

19

3. Date: Aleksandr, v. 9, no. 11-12, 1964, 897-900

4. Subject: neutron pulse generator/IGN-200 pulse generator

This communication describes model IGN-200 neutron impulse formed and built at the Institute of Physics and Mathematics in Warsaw. It is a pulsed neutron source based on the principle of the nuclear impulse produced by the interaction of the beam of particles accelerated by an electron accelerator with the neutron flux.

The particles accelerated in the electron accelerator, their energy is 14 MeV, can be stopped in microseconds to infinity, their rate of repetition can vary from 10 Hz. The apparatus contains a vacuum system. The IGN-200 is provided with a power unit, a control console,

ACCESSION NR: AP5014460

a cooling system, a vacuum system and a meter panel. The diffusion parameters of neutrons in water were already measured with satisfactory accuracy. The authors extend their thanks to Doctor J. M. Kowalewski for valuable consultation by the construction of the general n.T. ring, and to Dr. S. G. Kowalewski.

ADDITION: Instytut Badan Jadrowych, Warsaw-Swierk (Institute of Nuclear Research)

Poland

ENCL: OO

REF ID: NP

NO REF SERV: 000

OTHER: 000

JPRS

Card 2/2

DYBOWSKI, R.

DYBOWSKI, R. For a better quality of newsprint. p. 171

Vol. 12, no. 6, 1956 June

PRZEGLAD PAPIERNICZY

TECHNOLOGY

Lodz, Poland

So: East European Accession Vol. 6, no. 2, 1957.

WITWICKI, T.; DYBOWSKI, W.; FURA, M.; SARNECKA, S.; TYLMAN, D.; ZAWIDZKA, W.

Therapeutic results in pseudoarthrosis of the long bone. Chir. narz.
ruchu ortop. polska 26 no.5:605-611 '61.

1. Z Kliniki Ortopedycznej AM w Warszawie Kierownik: prof. dr
A.Gruca.
(PSEUDARTHROSIS surg)

WITWICKI, Tadeusz; TYLMAN, Donat; DYBOWSKI, Wieslaw

Principles and results in the treatment of the radius associated with dislocations in the distal radio-ulnar joint. Chir. narzad. ruchu ortop. pol. 27 no.4:463-471 '62.

1. Z Kliniki Ortopedycznej AM w Warszawie Kierownik: prof. dr A. Gruca.
(RADIUS FRACTURES) (WRIST INJURIES)

DYBOWSKI, Wieslaw R.

Atypical reconstruction of extensive postinflammatory foot deformities.
Chir. narzad. ruchu ortop. pol. 27 no.6:795-799 '62.

1. Z Kliniki Ortopedycznej AM w Warszawie Kierownik: prof. dr A. Gruca.
(FOOT DISEASES)

BARCIKOWSKI, Wladyslaw; DYBOWSKI, Wieslaw Robert

Treatment of contractures of the knee joint in patients with
chronic progressive rheumatism. Reumatologia (Warsz.) 2 no.4:
355-363 '64

1. Z Oddzialu Ortopedycznego Instytutu Reumatologicznego
(Kierownik: doc. dr. med. W. Barcikowski; Dyrektor Instytutu:
dr. med. W. Bruhl).

DYBOWSKI, Wieslaw, R.; SEYFRIED, Andrzej

Supinated and supinated-abducted foot in rheumatoid arthritis.
Reumatologia (Warsz.) 1 no. 3-4:153-159 '63.

l. Z Oddzialu Ortopedycznego (P. o. Kierownika: doc. dr W. Barcikowski); Z Zakladu Rehabilitacji (Kierownik: dr med. A. Seyfried) i Instytutu Reumatologicznego w Warszawie (Dyrektor: dr med. W. Bruhl).

DYBOWSKI, Wieslaw R.

Surgical treatment of foot deformities in chronic progressive rheumatism. Reumatologia (Warsz.) 3 no.3:255-262 '65.

1. Z Oddzialu Ortopedycznego Instytutu Reumatologicznego
(Kierownik: doc. dr. med. W. Barcikowski; Dyrektor Instytutu:
dr. med. W. Brühl).

S/081/62/000/019/008/053
B144/B180

AUTHORS: Minczewski, Jerzy, Dybozyński, Rajmund

TITLE: Application of the normal distribution to the quantitative estimation of elution curve. Separation of rare earths on anion exchange resins in form of complexes with ethylene diamine tetraacetic acid

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1962, 105, abstract 19D22 (Rept. Inst. badań jadrow. PAN, no. 271/VIII, 1961, 20 pp., ill. [Eng.; summaries in Pol. and Rus.])

TEXT: A mathematical elaboration is given of results obtained by chromatographic separation of elements in columns with linear isotherms, and a formula is deduced for calculating the content of the substance to be determined in the sample from the elution curve: $A = 0.886 M_{(\max.)} \cdot W$, where $M_{(\max.)}$ is the height and W is the width of the elution curve peak. The formula specified is verified on the example of chromatographic separation of lanthanides using complexone III as complexing agent and Ho¹⁶⁶ and Eu¹⁷⁰ as radioactive isotopes. It is pointed out that the method elaborated may be

Card 1/2

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4

Application of the normal ...

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B144/B180

applied to the determination of rare-earth elements in radioactivation analysis. [Abstracter's note: Complete translation.]

Card 2/2

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4"

DYBSKAYA, T.I.

Distribution of vegetative mass of trees and bushes in sandy
desert. Vest. Mosk. un. Ser. 5: Geog. 17 no.6:37-41 N-D
'62. (MIRA 16:1)

1. Kafedra biogeografii Moskovskogo universiteta.
(Kara Kum--Phytogeography)

DYBSKAYA, T.I.

Relief and phenological phases of the development of herbaceous
vegetation in a sandy desert. Biul. MOIP. Otd. biol. 67 no. 5:13²
136 S-0 '62. (MIRA 15:10)
(REPETEK DESERT PRESERVE--DESERT FLORA)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4

DYBSKAYA, T.I.

Quantitative evaluation of the vegetation in northern sand deserts.
Biul. NOIP. Otd. biol. 69 no.4:86-100 Jl-Ag '64.
(MIRA 17:11)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4"

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4

Dybskaya L.S.
SHKODIN, A.M.; KARKULAKI, L.I.; DYBSKAYA, Z.S.

Properties of acids and bases in acid solvents. Part 8: Acid-base titration in acid solvents in the presence of different additives.
Uch.zap. KHGU 71:33-39 '56. (MLRA 10:8)
(Volumetric analysis) (Solvents)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4"

DUBSKIY, A. V.

28455

O pryedlyeniye uglyeokisloty v pivyei v gazirovannykh napit'akh. Konsultatsii po pishch. Prom-stv. (Ukr. Nauch - Isslyed. In-t Pishch. Prom-sti), Byg 3, 1949, S. 75-82
Kalanashnikov, Ye. Ya. I lifshits, D. B. - Sm. 28460.

SO: LSTOPIS No. 34

DRAFTED BY P.V.

S/167/59/000/08/020/020
R0513AUTHOR: Zelotukhin, V.E.
Title: The Scientific-Technical Conference at Charkov
Aviation InstitutePERIODICAL: Inventivye vysashnik uchebnykh zaredaykh aviaticheskaya
tekhnika. 1959, Nr. 4, pp. 161-165 (USSR)ABSTRACT: In May 1959, the 16th Conference of Professional and
Teaching Staff took place.

The Technical Conference of Aircraft Construction and Metal Working
Section. "A New Model of the Plasticity of Metals" by
Instructor, Candidate of Technical Sciences A.P. Harinok
Iskra-Mashzavod. "The Forming of Large
Components from Sheet Metal" by Assistant A.P. Harinok
On the Problem of Constructing Sealed Order Curves in
Aircraft Construction by Senior Instructor
M.I. Zardanovskii. "The Electric-Contact Welding of Thin
Pieces of Metal" by Assistant N.M. Shilnikov. "The Influence
of Plastic Deformation on the Properties of Aromatic
Stainless Steel at Various Temperatures" by Assistant
N.V. Plasenov. "The Deformation of Non-ferrous Metals
and Alloys at Low Temperature" by Assistant Instructor
M.I. Lur'ichikov. "The Investigation of Phase Changes in
Austenitic Steels Previously Deformed at Below Freezing
Point" by Candidate of Technical Sciences
A.M. Chukhling and Aspirant I.P. Martirosov. "The Influence
of the Temperature and Velocity of Deformation on the
Phase Changes of Austenitic Steels" by Candidate of
Technical Sciences A.M. Chukhling and Fellow I.K. Matveev.
The Determination of Optimum Technical Grouping in the
Design and Production of Aircraft" by Assistant

Iu.A. Boborykin. "On the Use of Explosives in the
Technology of Grop Forming" by Assistant K.I. Zav'yev.
"Welding by Friction" by Assistant M.P. Olsorovskiy.

Structure of Aircraft Section. "The Structure of Aircraft
From the Problem of Protecting the Structure From Destructive
Aerodynamic Heating" by Doctor of Technical Sciences
"Protective Methods of Protection From Aerodynamic Heating"
by Candidate of Technical Sciences Z.G. Yatsinichikov.
"The Influence of the Parameters of a Thermally Isolated
Packet on Heat Transfer Characteristics" by Assistant
A.I. Kobilyanskiy. "Aircraft Structures Made From
Thermoplastic Sheets" by Doctor of Technical Sciences
S.N. Klyushnikov. "An Apparatus for Investigating
Repeated Static Loading and High Temperature by
Assistant L.A. Malashenko. "The Approximate Calculation
of the Weight Taking into Account the Technical Features
of the Aircraft Structure" by Candidate of Technical
Sciences L.D. Ararani. "The Determination of Stressess in
Shells as a Result of Riving" by Assistant
"The Ultrasonic Attometer (Sounding Device)"
Card 10/11 - Kharkov. "The Ultrasonic Attometer (Sounding Device)"
The Scientific-Technical Conference at Charkov Aviation Institute
and "The Radio-Control and Autopilot of an Experimental
Model" by Engineer I.S. Teply.

L 22984-66 EWT(1)/EWP(m)/EWT(m)/EWA(d)/T/ETC(m)-6/EWA(1) WW/DJ

ACC NR: AP6007888

SOURCE CODE: UR/0420/65/000/002/0013/0021

AUTHOR: Dylnskiy, P. V.

ORG: none

TITLE: Flow of an ideal fluid in a normal elbow tube (Plane problem)

SOURCE: Samoletestroyeniye i tekhnika vozduzhnogo flota, no. 2, 1965, 13-21

TOPIC TAGS: fluid flow, ideal flow, pipe flow, incompressible fluid

ABSTRACT: The question of the distribution of velocities and pressures in a normal elbow tube is involved in the solution of the problem of an approximate simulation of flow channels of blade machines. The present work investigates the flow of an ideal incompressible fluid in a channel of constant cross section formed by a normal elbow (with an angle of turn of 2α , radii R and r_0 , and width $b = 1$) and two infinite rectangular segments adjoining it (see Fig. 1).

An experimental determination was made of the pressures along the channels with different radii of the elbow and with different angles 2α in order to check the theoretical results obtained. It is concluded that the approximate solution to the problem produces results which agree quite well with the experiment. In a comparison of the curves, it should be born in mind that in theoretical flow the fluid has no losses, therefore, the pressure in the channel after the bend is always higher than in real fluid. Orig. art. has: 5 figures, 5 tables, and 2 formulas.

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"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4

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ACC NR: AP6007888

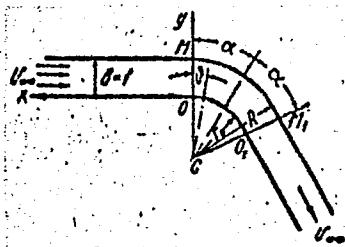


Fig. 1. Diagram of the channel.

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 001

Card 2/2 LC

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4"

DYBSKIY, R.V.

DYBSKIY, R.V.

New determination of the dimensions of the plane-parallel
terminal length unit. Izm. tekhn. no.2:37-41 Mr-Ap '55.
(Standards of length) (MIRA 8:9)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4

DyBSKIY, R.V.

DYBSKIY, R.V.; BOZHKO, Ye.P.

Improved method of checking the dials of measuring apparatus.
Izm. tekhn. no.2:53-54 Mr-Ap '55. (MIRA 8:9)
(Measuring instrument)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4"

DYBSKIY, V. V.
C4

2/

Recovery of volatile products of coking, at high pressures. K. A. Belov and V. V. Dybskiy. *Zhur. Tekhnicheskoy Khim.* (U. S. S. R.) 1938, No. 7, 7 Tl. The solubility of aliphatic hydrocarbons in solar oil varies with pressure according to $k = A/(1 + \rho)$, where A is a const., and ρ the pressure in atm.; for practical purposes ρ should be not greater than 7. Scrubbing the coking gas with H_2O at 3.5 under 2-7.5 atm. lowers the C_{6+} content to 0.05-0.1 g./cm. m. Distr. of equill. content of H_2S over aq. NaOH shows that little further elimination of H_2S is achieved by raising the pressure above 4.5 atm. Solub. said with H_2S may be regenerated by passing CO_2 or air, by boiling, etc., preferably, by aerating the boiling soln. B. C. P. A.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

Dobrolyubov, V. V.
Kinetics of the swelling of coal in pyridine. M. I. Kuznetsov and V. V. Dobrolyubov, *J. Applied Chem. (U.S.S.R.)* 20, 978-981 (1947) (in Russian).—The rates of swelling were measured by high-accuracy readings of the vol. of C_6H_5N absorbed by samples of coal ground to 90% mesh/sq. cm. (particle size not over 0.3 mm.) and pressed, under 30 atm., into 1-g. cylindrical briquets of 2 cm. diam., equal exactly to the diam. of the container; the briquets were supported by a glass filter, giving access to the liquid from the bottom. A pyridine reservoir, connected with the measuring pipet, permitted uninterrupted observation during 96 hrs. The "physical" capacity of the sample, as distinct from the absorption due to swelling, was detd. in each case with alc.; absorption of alc. generally came practically to a standstill in 8-12 or at most 20 min.; the corresponding amt. was subtracted from the vol. of C_6H_5N absorbed, giving the pure colloidal swelling effect. The figures were further corrected for moisture and ash content and reduced to 1 g. dry and ash-free substance. The 7 coal types investigated, analyzing (C, H, N, S + O): (I) 78.02, 5.13, 1.44, 15.41, (II) 81.03, 5.09, 1.22, 12.00, (III) 85.40, 5.35, 1.44, 7.71, (IV) 88.13, 4.77, 1.20, 5.84, (V) 87.06, 4.83, 1.16, 6.05, (VI) 88.64, 4.60, 1.43, 5.37, and (VII) 89.23, 3.99, 1.21, 5.57%, included a nonagglomerating long-flame sort (I), 2 gas coals II and III (the former nonagglomerating), 2 fat sorts IV and V, a coking coal VI and a lean coal VII (nonagglomerating). Coals I-III swell very rapidly in the initial stages and reach satn. in a few hrs.; swelling of IV-VII progresses gradually and there is no indication of satn. even after 96 hrs. That the difference between the 2 groups is detd. by specific differences of colloidal struc-

ture and is not due to a depressing effect of pyridine-sol. substances in which the 1st group is particularly rich, was demonstrated by rate measurements made after preliminary extrn. of I-III with alc.- C_6H_5N ; not only did this pre-treatment fail to slow down the swelling, but, if anything, satn. was reached faster. From the kinetic point of view, applicability of a 1st-order rate law could not be tested in the integrated form, $\ln a/(a - x) = kt$, owing to the impossibility to det., by extrapolation, the limiting swelling at satn., a . The law was consequently tested in its differential form, $-dx/dt = k_1 - kx$, by substituting $\Delta x/\Delta t$ for dx/dt , and plotting the difference quotient against the swelling x at the time t . In this test, the 1st-order law was found utterly inapplicable to I-III. In the swelling of IV-VI, there are 2 distinct stages, the 1st of which follows the 1st-order law, giving a straight line in the coordinate system $\Delta x/\Delta t$, x , with the graphically detd. const. $a = 0.83$, 0.38, and 0.22 ml./g., resp., and $k = 0.8$, 0.7, and 0.4, resp. (t in hrs.). This 1st-order stage extends only over the 1st 6 hrs. and is followed by a 2nd stage where the 1st-order law is inapplicable. For the swelling of I-III, the kinetic curves could be represented satisfactorily by the hyperbola $x = At/(B + t)$, giving a straight line $t/x = (B/A) + (1/A)$ over the whole period of the swelling. The same equation holds for the 2nd stage of the swelling of I-III, particularly to the portion between 24 and 96 hrs. It is shown easily, that $A = a$, and that B represents the half-time of swelling, i. e., the time at which $x = A/2 = a/2$. Differentiation of the above hyperbola equation gives $-dx/dt = k_1(a - x)^2$, in other words a simple 2nd-order law, with $k_1 = 1/(aB)$.

The exp'l. numerical values of a (ml²) and k , are: I 2.33, 10.5; II 2.14, 3.8; III 2.03, 3.6; and for the 2nd stages of IV 1.71, 0.04; V 1.42, 0.05; VI 0.87, 0.05. These kinetic findings contradict those of Ade and Hubertus (C.I. 31, 5130') which are erroneous on both the exp'l. account and in the method of evaluation of the data. The kinetics of swelling of coal are evidently detd. by the age of the coal. Young coals, nonagglomerating or slightly agglomerating, absorb large amts. of C₆H₅N and react snr., very fast; the 2nd-order kinetics of their swelling correspond to an intramicellar process. The riper coals swell much slower and absorb, at the limit, much smaller amts. of C₆H₅N; the 1st-stage, following a 1st-order rate law, is intermicellar, and is followed by 2nd, intramicellar, 2nd-order stage. The oldest coal, VII, swells only very little. The consts. a and k decrease regularly with increasing age of the coal. The differences can be described in terms of a "colloidal age" of the coal.
N. Thon

DYBITSIN, A.A.; SIVOKHIN, S.P.

On the road toward quality improvement. Bum.prom. 38 no.9±5-8
S '63. (MIRA 16:11)

1. Arkhangel'skiy kombinat.

PUPKO, L.S.; LANCHUK, G.A.; DYCHENKO, A.I.

Synthesis of bromo derivatives of nitroformaldehyde of aryl hydrazone. Ukr.khim.zhur. 29 no.6:610-612 '63. (MIRA 16:9)

1. Institut organicheskoy khimii AN UkrSSR.
(Formaldehyde) (Hydrazones)

PUPKO, L.S.; DYCHENKO, A.L.; PEL'KIS, P.S.

Synthesis of ~~a~~ symmetrical derivatives of 5-hydroxy-2,3 diaryl tetrazolium betaine. Ukr. khim. zhur. 31 no. 12:1306-1309 '65
(MIRA 19:1)

1. Institut organicheskoy khimii AN UkrSSR. Submitted October 1,
1964.

DYCHENKO, T.F.

PAGE 1 MORE INFORMATION

Soviet

Lashchenko, Glebova, Protschitskaya, observations
Former Field Meteorological methods. (Problems in the Physics of the
Boundary Air Layer) Leningrad: Elementzdat, 1960. 161 p. 850 copies printed.
(Berlin) 1961. Text study, vpp. 50. Price also listed. \$50

Sponsoring Agency: Glavnoye gosudarstvennoye obnaruzheniye i sluzhby pri Sovete Ministrov
SSSR.
Ed. (Title page): N.D. Lashchenko, Doctor of Physics and Mathematics; R.A.
(Basic book): N.N. Glebova; Tech. Ed.: B.T. Tolok.
Purpose: This publication is intended for meteorologists specializing in the
lower layers of the atmosphere. It may also be of interest to agricultural
and construction engineers, and other specialists whose activities are influenced
by atmospheric conditions.

Content: This issue of the Transactions of the Main Geophysical Observatory
contains 10 articles dealing mainly with problems of the physical and geotechnical
nature of air layers. Correlations between the surface wind and geotrophic
wind are examined and the results of both theoretical calculations and
experimental investigation given. Individual articles analyze the
temperature regime of the active mixture of soil and the factors determining
the thermal conditions of the boundary layer. Results of the investigation
are presented in two articles. In addition, new problems or methods in
the experimental investigation of the near-surface air layer are elucidated. No
recommendations are mentioned.

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GOLYAS, L., inzh.; DYCHKIN, I., inzh.

New MoAZ-522 high-roadability dump truck. Avt. transp. 4l no.9:
48-49 S '63. (MIRA 16:10)

1. Mogilevskiy avtomobil'nyy zavod im. Kirova.

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4"

DYCHKO, A.A., kand.tekhn.nauk

Causes of the occurrence of cracks in babbitt bearing lining.
Trudy TECNIZHT 23:27-42 '57. (MIRA 13:11)
(Babbitt metal) (Bearings (Machinery))

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4

DYCHKO, A.A., dotsent; DYCHKO, K.A., dotsent

Studying the sliding friction boxes at low temperatures and high
train speeds. Trudy TEIIZHT 25:71-92 '58. (MIRA 13:10)
(Car axles--Cold weather operations)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000411730001-4"

DYCHKO, A.A., dotsent; DYCHKO, K.A., dotsent

Study of the effect of thermal processing of lubricants on the performance of car boxes at low temperatures. Trudy TEIIZHT 25:93-103
'58. (MIRA 13:10)

(Lubrication and lubricants)
(Railroads--Cars--Cold weather operations)

DYCHKO, A.A.

Selecting the type and dynamic characteristics of shock
absorbers for freight cars. Trudy TEIIZHT 34:121-134 '62.
(MIRA 16:8)

DYCHKO, A.A.; DYCHKO, K.A.

Selecting the dynamic characteristics of the absorber
mechanism of the automatic coupler. Trudy TEIIZHT 34:53-64
'62. (MIRA 16:8)

L-23838-65 EXP(n)/EXP(w)/EXP(d)/T/EXP(t)/EXP(b) JD/WB
ACCESSION NR: AR5000730 S/0277/64/000/009/0005/0005

SOURCE: Ref. zh. Mashinostroitel'nye materialy, konstruktsii i ustroystvovaniye mashin. Gidoprivod. Otd. vyp., No. 1, 1971.

AUTHOR: Dyachko, A. A.; Dyachko, K. A.

TITLE: Molecular kinetic phenomena and processes of decarbonization,
nitration, hydrogenation, and oxidation in dry friction ¹⁵

CITED SOURCE: Tr. Omskogo in-ta inzh. zh.-d. transp., v. 43, no. 2,
1971. ¹⁶

TOPIC: dry friction, molecular kinetic process, metal friction,
metal wear, metal oxidation, metal hydrogenation, metal
decarbonization, metal mechanical property, steel, metal oxide film

TRANSLATION: The work shows the effect of molecular kinetic
processes in capillary openings of rubbing bodies on air suction in
gaps between bodies undergoing friction, nitration, oxidation,
hydrogenation, and decarbonization of the surface of the steel,
that is, the formation of a white layer with improved mechanical

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ACCESSION NR: AR5000730

properties. The dependence of μ on the relation between the molecular volume of the oxide film and the molecular volume of the metal is established. 1 figure, 1 table, 23 literature titles.

SUB CODE: MM

ENCL: 00

Card 2/2

L 17932-65 EWT(m)/EWA(d)/EWP(t)/EWP(b)/EWP(w) ASD(m)-3/AEDC(b)/AFML/AFETR JD
ACCESSION NR: AII4048239 S/0137/64/000/009/I034/I035

SOURCE: Ref. zh. Metallurgiya, Abs. 9I217

✓

AUTHOR: Dyachko, A. A.

TITLE: Physical bases of the effect of low temperature on the
mechanical properties of metals

CITED SOURCE: Tr. Omskogo in-ta inzh. zh.-d. transp., v. 43, no. 2,
1963, 97-107

IC TAGS: metal ductility, metal strength, low temperature metal,
low temperature alloy, mechanical property, temperature

TRANSLATION: On the basis of theoretical investigations and literature data, the effect of low temperatures on the process of increasing strength and decreasing ductility of metals has been analyzed. Change in mechanical properties is connected with a change in the force of the interaction between atoms in the cooling of metals. On the basis of the interaction of the atoms as a function of the distance between them and the coefficient of linear compression, a

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L 17932-65

ACCESSION NR: AR4048239

condition has been determined which must be satisfied by the alloying element; this makes possible an increase in the mechanical properties of the metal at low temperatures. This is very interesting in connection with the problem of choice of materials to satisfy conditions for the operation of machines and installations in regions with rigorous winters. 7 literature titles.

SUB CODE: MM

ENCL: 00

Card 2/2

L-23436-65 ENT(m)/ENP(w)/EPP(o)/EVA(d)/T/ENP(t)/ENP(b) Pr-4 JD/WB/DJ

ACCESSION NR: AR5000729

S/0277/64/000/009/0005/0005

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin. Gidropribor. Otd. vyp., Abs. 9.48.27

AUTHOR: Dychko, A. A.

TITLE: A study of the friction coefficient at low temperatures, 6

CITED SOURCE: Tr. Omskogo in-ta inzh. zh.-d. transp., v. 43, no. 2, 1963, 211-219

TOPIC TAGS: friction, friction coefficient, undercarriage vibration damper, low temperature friction, heat conductivity, oxide film

TRANSLATION: A study of the temperature and load dependence of μ for sample undercarriage vibration dampers demonstrated that μ is higher at low temperatures than at temperatures above 0°C. Temperature affects μ not only through the mechanical properties, internal strains, capillary-kinetic processes and corrosion, but also in terms of the properties of oxide films and the coefficient of heat conductivity. The latter factor increases in metals as temperature drops and this promotes the maintenance of lower temperature in the friction region. Oxide films are brittle and have high electrical resistance at low temperatures, their properties approaching those of dielectrics. Oxide

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L 23436-65

ACCESSION NR: AR5000729

3.

films with various semiconductor properties facilitate the reduction of oxides, i.e. the grinding and cold welding of rubbing surfaces, especially at low temperatures. Corrosion increases surface energy. Hence, the coefficients of friction and wear are higher when oxygen is absent or inhibited (i.e. in a vacuum, in a neutral environment, at low temperatures, etc.) than in an oxidizing environment. Bibl. with 25 titles; 5 illustrations.

SUB CODE: MM

ENCL: 00

Card

2/2

L 21001-65 EPF(c)/EPR/ENG(j)/EMT(m)/EMP(b)/T/EWA(d)/EMP(w)/EMP(t)/ Fr-4/Pb-4/
IJP(c)/ASD(m)-3/AS(mp)-2 JD

ACCESSION NR: AR5000731

S/0277/64/000/009/0005/0005

30
B

SOURCE: Ref. zh. Mashinostroitel'nye materialy*, konstruktsii i
detalej mashin. Gidroprivod. Otd. vyp., Abs. 9.48.29

AUTHOR: Dyachko, A. A.

TITLE: The physical bases of the nature of friction, wear, and
seizing of metals at low temperatures

CITED SOURCE: Tr. Omskogo in-ta inzh. zh.-d. transp., v. 43, no. 2,
1963, 221-235

TOPIC TAGS: low temperature effect, metal friction, metal wear,
metal seizing, metal oxide film

TRANSLATION: A mechanism involving electron interaction of metal
oxide films is proposed to explain the physical basis of friction,
wear, and seizing of metals. 44 literature titles.

SUB CODE: MM

ENCL: 00

Card 1/1

DYCHKO, A.A.; DYCHKO, K.A.

Selecting the dynamic characteristics of hydraulic shock absorbers.
Trudy OMIIT 38:165-180 '62.

Studying the performance of cars without buffers. Ibid.:181-190
(MIRA 18:8)

ACC NR: AR6035529

SOURCE CODE: UR/0277/66/000/009/0010/0010

AUTHOR: Dychko, A. A.; Ryzhova, G. L.

TITLE: Donor acceptor reactions in the solid phase as the basis of the role of friction wear and seizing of metals

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin, Gidroprivod, Abs. 9. 48. 54

REF SOURCE: Tr. Omskogo in-ta inzh. zh.-d. transp., vyp. 55, 1965, 36-44

TOPIC TAGS: metal friction, ultrahigh purity metal, mechanical property, friction coefficient, friction pair, donor acceptor reaction

ABSTRACT: The role of friction, wear, and seizing, determined by donor-acceptor reactions between rubbing solids, in producing ultrahigh-purity metal with high mechanical properties is studied. Sawtoothed changes in the friction coefficient and temperature during the process of friction are explained. Basic principles for selecting friction pairs with a preset mode of friction for accomplishing the transfer of ultrahigh-purity metal with high mechanical properties are given.

[Translation of abstract]

[NT]

SUB CODE: 11/

Card 1/1

UDC: 539.538:669.018

DYCHKO, I.A.

Organization and some results of observations of gravity variations
performed at Poltava with a GS-11 gravimeter. Trudy Polt. grav. obser.
(NIRA 16:9)
12:3-16 '63. (Poltava—Gravimetry)

KORBA, P.S.; DYCHKO, I.A. [Dychko, I.O.]

Effect of damping in observing gravity variations with an
"Askania" gravimeter. Dop. AN URSR no.8:1035-1038 '65.
(MIRA 18:8)

1. Poltavskaya gravimetriceskaya observatoriya Instituta
geofiziki AN UkrSSR.

DYCHKO, K.A.

DYCHKO, A.A.; DYCHKO, K.A.

Atmospheric corrosion of metals at low temperatures. Zhur.prikl.khim
30 no.2:255-263 F '57.
(Corrosion and anticorrosives)

DYCHKO, A.A., dotsent; DYCHKO, X.A., dotsent

Studying the sliding friction boxes at low temperatures and high
train speeds. Trudy TEILZHT 25:71-92 '58. (MIRA 13:10)
(Car axles--Cold weather operations)

DYCHKO, A.A., dotsent; DYCHKO, K.A., dotsent

Study of the effect of thermal processing of lubricants on the performance of car boxes at low temperatures. Trudy TEIIZHT 25:93-103
'58. (MIREA 13:10)

(Lubrication and lubricants)
(Railroads--Cars--Cold weather operations)

DYCHKO, A.A.; DYCHKO, K.A.

Selecting the dynamic characteristics of the absorber
mechanism of the automatic coupler. Trudy TEIIZHT 34:53-64
'62. (MIRA 16:8)

L 23038-65 EMT(m)/EMT(v)/EMT(d)/T/EMT(t)/EMT(b) 10/73
ACCESSION NR: AR5000730 S/0277/64/000/009/0005/0005

USSR. Nauch. zh. Mashinostroitel'nye materialy, konstruktsii i sredstva upravleniya na sladkikh i vysokospedisnykh strelay mashin. Gidoprivod. Otd. vyp. 2., No. 2, 1973.

AUTHORS: Dyachko, A. A.; Dyachko, K. A.

ABSTRACT: Molecular kinetic phenomena and processes of decarbonization, hydrogenation, nitration, and oxidation in dry friction.

PUBLICATION: Tr. Omskogo in-ta inzh. zh.-a. transp., v. 11, no. 2,

TRANSLATION: The work shows the effect of molecular kinetic processes in capillary openings of rubbing bodies on air suction in the gap between bodies undergoing friction, nitration, oxidation, hydrogenation, and decarbonization of the surface of the steel, that is, the formation of a white layer with improved mechanical properties.

Cont'd 1/2

L 23838-65

ACCESSION NR: AR5000730

properties. The dependence of μ_1 on the relation between the molecular volume of the oxide film and the molecular volume of the metal has been established. 1 figure, 1 table, 23 literature titles.

SIZE: MM

ENCL: 00

Card 2/2

DYCHKO, A.A.; DYCHKO, K.A.

Selecting the dynamic characteristics of hydraulic shock absorbers.
Trudy OMIIIT 38:165-180 '62.

Studying the performance of cars without buffers. Ibid.:181-190
(MIRA 18:8)

HANNICH, K., inzh.; DYCKA, J., inz.; KOVACIK, A., doc. inz. CSc.

Experiments with the new spring oil plant Crambe (Crambe abyssinica Hochst.) in Czechoslovakia. Rost výroba 10 no.ll:1087-1094 N '64.

1. Higher School of Agriculture, Prague (for Hannich and Dycka). 2. Central Research Institute of Plant Production, Ruzyne (for Kovacik).

DYCZKOWSKA, Maria; KASZA, Stanislaw

On the activity of some new anticholinergic drugs in peptic ulcer of
the stomach and duodenum. Pol. tyg. lek. 17 no.8:293-298 19 F '62.

1. Z III Kliniki Chorob Wewnętrznych AM we Wrocławiu; kierownik: prof.
dr med. Edward Szczeklik i z Kliniki Radiologicznej AM we Wrocławiu;
kierownik: doc. dr med. Zbigniew Kubrakiewicz.

(PEPTIC ULCER ther) (PARASYMPATHOLYTICS ther)
(MEPROBAMATE ther)